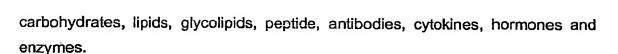
## **CLAIMS**

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- 1. Culture medium conditioned by cytokines and soluble factors released by immortalized untransformed hepatocytes that are differentiated, polarized epithelial cells; said medium being characterized in that it is free from conditioning cells when used for maintenance, proliferation and differentiation of mammalian cells, including human cells.
- 2. Culture medium according to claim 1 wherein said hepatocytes are murine MMH cells.
- 3. Culture medium according to claims 1-2 wherein said MMH cells are genetically modified.
  - 4. Culture medium according to claims 1-3 wherein said the cultured mammalian cells are embryonic or adult cells.
  - 5. Culture medium according to claims 1-3 wherein said the cultured mammalian cells are cord-blood stem cells.
- 15 6. Culture medium according to claims 1-3 wherein said the cultured mammalian cells are non human embryonic stem cells or adult stem cells including human.
  - 7. Culture medium according to claims 1-3 wherein said mammalian cells are endodermal, ectodermal and mesodermal cells or their progenitor.
- 20 8. Culture medium according to claims 1-3 wherein said mammalian cells are endodermal, ectodermal and mesodermal and adult stem cells.
  - 9. Culture medium according to claims 1-8 characterized for further comprising at least one biological molecule selected from the group consisting of proteins, glycoproteins, lipoproteins, carbohydrates, lipids, glycolipids, peptides, antibodies, cytokines, hormones and enzymes.
  - 10. Culture medium according to claims 1-8 further characterized for being depleted for at least one biological molecule selected from the group consisting of: proteins, glycoproteins, lipoproteins, carbohydrates, lipids, glycolipids, peptides, antibodies, cytokines, hormones and enzymes.
- 30 11. Culture medium according to claims 1-8 wherein said untransformed hepatocytes are genetically modified in order to express at least one specific biological factor selected from the group of: proteins, glycoproteins, lipoproteins,

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- 12. Culture medium according to claims 1-11 in form of a solid, a lyophilized, a powder, a gel, a film, or a freeze-dried compound.
- 5 13. Culture medium according to claims 7-9 wherein the maintenance, the proliferation and the differentiation of mammalian cells is performed in order to further condition the MMH-conditioned medium.
  - 14. Process for production a culture medium according to claims 1-13 comprising the steps of incubating the hepatocytes in a culture medium for at least 2 hours and separating said hepatocytes before the use for culturing meaning.
- 2 hours and separating said hepatocytes before the use for culturing mammalian cells.
  - 15. Process according to claim 14 wherein the separation step is performed by filtration or by centrifugation.
- 16. Process according to claims 14-15 herein said culture medium is RPMI,
  15 Ham's F12, Dulbecco's Modified Eagle's Medium (DMEM), RPMI 1640, Iscove's,
  McCoy's.
  - 17. Mammalian cells treated with the conditioned medium according to claims 1-13 to be used in the medical field.
- 18. Mammalian cells according to claims 1-13 to be used for cellular 20 transplantation protocols.
  - 19. Mammalian cells according to claims 1-18 to be genetically engineered.
  - 20. Mammalian cells according to claims 1-19 to be used for the production of biological molecules.
- 21. Pharmaceutical composition comprising the mammalian cells according to claims 17-18 to be used in the medical field.
  - 22. Pharmaceutical composition comprising the mammalian cells according to claims 17-18 to be used in cellular therapy protocols
  - 23. Use of the conditioned medium according to claims 1-13 for the preparation of a culture medium for growing, expand, maintain and /or differentiate isolated cells in vitro.
  - 24. Use according to claim 23 wherein said isolated cells are cord-blood stem cells.

- 25. Use according to claim 23 wherein said isolated cells are non human embrional stem cells or adult stem cells.
- 26. Use according to claim 23 wherein said cells are endodermal, ectodermal and mesodermal cells or their progenitor.
- 5 27. Use according to claim 23 wherein said cells are NK cells.
  - 28. Use according to claim 23 wherein said cells are dendritic cells.
  - 29. Use according to claim 23 wherein said cells are endothelial cells.

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